PROJECT DESCRIPTION **GENERAL NOTES** THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC SIGNAL AT THE INTERSECTION OF MD 414 (OXON HILL ROAD) AT HARBORVIEW AVENUE IN PRINCE GEORGE'S COUNTY. MD 414 IS CONSIDERED TO RUN IN AN EAST/WEST DIRECTION. PHASE CHART 1. VIDEO CAMERA LOCATION/ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER. 2. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE AND CABINET LOCATIONS PRIOR 12 13 14 15 16 17 18 19 20-23 24-25 THE WEST LEG IS BEING WIDENED TO ACCOMODATE TWO EAST AND WESTBOUND LANES AND AN EASTBOUND DOUBLE LEFT. THE NORTH LEG IS BEING WIDENED TO ACCOMODATE A SOUTHBOUND FREE-RIGHT. A PEDESTRIAN CROSSING IS BEING ADDED TO THE SOUTH LEG. THE PEDESTRIAN CROSSING ON THE EAST LEG IS BEING MOVED TO INSTALLATION. 3. PAVEMENT MARKINGS DETAILED ARE PROPOSED AND ARE TO BE INSTALLED BY THE **(**√) TO THE WEST LEG. €G €G **€** CONTRACTOR IN ACCORDANCE WITH MD-SHA STANDARDS. ALL OTHER PAVEMENT MARKINGS INTERSECTION OPERATION THE EXISTING CONTROLLER AND BASE MOUNTED CABINET SHALL BE USED. THE INTERSECTION WILL CONTINUE TO OPERATE IN A FULLY ACTUATED MODE USING 8 NEMA PHASES. THERE IS AN EXCLUSIVE LEFT TURN PHASE FOR ARE TO BE CONSIDERED AS EXISTING. 4. GEOMETRICS SHALL BE CONFIRMED PRIOR TO THE INSTALLATION OF SIGNAL EQUIPMENT. THE EAST AND WESTBOUND MOVEMENTS OF MD 414. THE MD 414 THROUGH MOVEMENTS WILL OPERATE CONCURRENTLY WITH A CONCURRENT PEDESTRIAN MOVEMENTS ACROSS THE NORTH AND SOUTH LEGS OF THE INTERSECTION. THERE NOTE: PHASE 1 AND 5 OPERATE AS A LEAD-LAG MOVEMENT ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT FINAL SIDEWALK OR CURB IS AN EXCLUSIVE LEFT TURN PHASE FOR THE NORTH AND SOUTHBOUND MOVEMENTS OF HARBORVIEW AVE. THE HARBORVIEW AVE THROUGH MOVEMENTS OPERATE CONCURRENTLY WITH AN ACTUATED PEDESTRIAN MOVEMENT ACROSS GRADE FOR CLOSED SECTIONS, HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS, THE WEST LEG OF THE INTERSECTION. PHASE 1 AND 6 TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, |+G-|+G-|+G-| G | G |+R-|+R-|+R-| R |  $R \mid R \mid \leftarrow R - \mid \leftarrow R - \mid \leftarrow R - \mid R \mid R \mid DW \mid DW$ CONTACT LIST MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE 1 CHANGE THE CONTACT PERSONS FOR THIS PROJECT ARE AS FOLLOWS: INSTALLATION OF ALL SIGNAL EQUIPMENT. MR. VENU NEMANI, ASSISTANT DISTRICT ENGINEER - TRAFFIC PHASE 2 AND 6 5. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC PHONE: (301) 513-7404 MR. DUANE BERNARD, ASSISTANT DISTRICT ENGINEER - CONSTRUCTION AND ARE NOT TO BE CONSIDERED COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE PED CLEARANCE PHONE: (301) 513-7341 MR. TOM FOUNTAIN, ASSISTANT DISTRICT ENGINEER - MAINTENANCE PHONE: (301) 513-7304 FOR NOTIFYING ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION SO THAT ALL 6 CHANGE UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A MR. VICTOR GRAFTON, UTILITY ENGINEER PHONE: (301) 513-7350 PHASE 2 AND 5 CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL EQUIPMENT WILL OCCUR. MR. AVIJIT MAJI, CHIEF, TRAFFIC OPERATIONS DIVISION PHONE: (410) 787-7630
MR. EDWARD RODENHIZER, MANAGER, SIGNAL OPERATIONS THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE PROJECT ENGINEER IMMEDIATELY. 2 AND 5 CHANGE 6. PUSHBUTTONS ARE TO BE LOCATED SO THAT THEY CAN BE ACTIVATED BY A PERSON IN PHONE: (410) 787-7652 PHASE 3 AND 7 ◆R-|◆R-|◆R-| R | R |◆R-|◆R-| ←R-| R | R |◆G-|◆G-| R A WHEELCHAIR REACHING LESS THAN 18 IN. FROM A 60 IN. × 60 IN. LEVEL LANDING AREA WITH A CROSS SLOPE OF LESS THAN OR EQUAL TO 2%. 1. ALL INTERNAL CABINET WIRING SHALL BE PERFORMED BY THE SHA SIGNAL SHOP. CONTRACTOR SHALL CONTACT ED RODENHIZER 72 HOURS PRIOR TO CONSTRUCTION. 3 AND 7 CHANGE TO 3 AND 8,4 AND 7, OR 4 AND 8 7. THE 10 FT. SEPARATION BETWEEN PUSHBUTTONS IS TO BE MEASURED FROM FACE OF PHASE 3 AND 8 PUSHBUTTON TO FACE OF PUSHBUTTON, NOT CENTER TO CENTER OF POLE. 2. APS WILL FUNCTION AS FOLLOWS: FOR MD 414 (OXON HILL ROAD) 8. PUSHBUTTON ARROWS ARE TO BE PARALLEL TO THE CROSSING FOR WHICH THEY ARE 3 CHANGE A. WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON MESSAGE WILL BE "WAIT TO CROSS OXON HILL of HARBORVIEW, CROSSWALK ANGLES RIGHT, WAIT" B. WHEN WALK PHASE BEGINS, THE AUDIBLE SOUND WILL BE A RAPID TICK, WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE. INTENDED. PHASE 4 AND R | ←R – | ←R – | ←R – | R 9. THE LOCATION OF ACCESSIBLE PEDESTRIAN SIGNAL PUSHBUTTONS MUST MEET LOCATION 7 CHANGE REQUIREMENTS OF MUTCD SEC. 4E.09 & FIG 4E-2 AND THE NCHRP PUBLICATION FOR HARBORVIEW AVE A. WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON MESSAGE WILL BE "WAIT TO CROSS HARBORVIEW of OXON HILL, WAIT"

B. WHEN WALK PHASE BEGINS, THE AUDIBLE SOUND WILL BE A RAPID TICK, WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE. "ACCESSIBLE PEDESTRIAN SIGNALS: GUIDE TO BEST PRACTICE". IF NOT MET, THE PHASE 4 AND 8 CONTRACTOR IS TO STOP WORK ON PUSHBUTTON LOCATIONS UNTIL A DESIGN WAIVER 4 AND 8 CHANGE IS OBTAINED, APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY. 10. ALL UNUSED CABLE SHALL BE REMOVED. PHASE 4 ALT AND 8 **EQUIPMENT LIST** A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION. 4 ALT AND 8 CHANGE  $| \leftarrow R - | \leftarrow R - | \leftarrow R - | R | R | \leftarrow F$ EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR. FLASHING: DESCRIPTION \_ FL/R FL/R FL/ FL/ FL/ FL/R FL/R DARK DARK OPERATION MAINTENANCE OF TRAFFIC 10 FT. STEEL PEDESTAL POLE WIRING DIAGRAM 16.5 FT. STEEL MONOCURVE MAST ARM POLE WITH 15 FT. "T" AND 70 FT. MAST ARM 27 FT. STEEL MAST ARM POLE WITH 60 FT. MAST ARM VIDEO DETECTOR CABLE 20 FT. LUMINAIRE ARM LED LAMP AND LUMINAIRE EXISTING VIDEO DETECTOR INTERFACE PANEL FOR TERRA CAMERAS 7-CONDUCTOR VIDEO DETECTOR CAMERA (TERRA) 1045 VIDEO DETECTOR CAMERA CABLE EΑ EΑ NON-INVASIVE PROBE (SET OF 3) WITH 500 FT. LEAD-IN CABLE NON-INVASIVE PROBE (SET OF 3) WITH 1000 FT. LEAD-IN CABLE EXISTING C. AUDIBLE PEDESTRIAN PUSHBUTTON ASSEMBLY WITH PUSHBUTTON SIGN 5-CONDUCTOR C.S.k.m.n.g ---APS 2-WIRE CENTRAL CONTROL UNIT .C.F.O.P.S. 12 IN. 3-SECTION LED SIGNAL HEAD - MAST a.b.k.m.n.a C.k.m.n-12 IN. 3-SECTION LED SIGNAL HEAD (RA, YA, GA) - MAST EXISTING C.F.O.P.S. 16 IN. 1-SECTION, 1-WAY LED (COUNTDOWN) PEDESTRIAN SIGNAL HEAD - POST TOP 5-CONDUCTOR a.b.k.m.n.a 16 IN. 1-SECTION, 1-WAY LED (COUNTDOWN) PEDESTRIAN SIGNAL HEAD - SIDE POLE C.F.S. 30 IN. X 36 IN. R3-5(L) REGULATORY SIGN - MAST ARM C.k.m.n---k.m.n.q C,D,F,O,P,Q,S,\_ 30 IN. X 36 IN. R3-5(R) REGULATORY SIGN - MAST ARM a,b,c,k,m,n,p,q C.k.m-16 IN. X VAR. D-3(1) DUAL FACED SIGN - MAST ARM 18 IN. X 18 IN. OM1-3 SIGN - GROUND EXISTING 5-CONDUCTOR 24 IN. X 30 IN. R4-7 SIGN - GROUND



Professional Certification. I certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the state of Maryland.

License No. 3175 Expiration Date 6128/2013

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30 IN. X 18 IN. W16-7p (L) SIGN - GROUND 30 IN. X 18 IN. W16-7p (R) SIGN - GROUND 36 IN. X 36 IN. R1-2 SIGN - GROUND 36 IN. X 36 IN. W11-2 SIGN - GROUND 4 IN. X 4 IN. WOOD SIGN SUPPORTS 30 4 IN. X 6 IN. WOOD SIGN SUPPORTS 4.5 CY TEST PIT EXCAVATION 14 EΑ HANDHOLE 615 2-CONDUCTOR TRAY CABLE (NO.12 AWG) 1215 2-CONDUCTOR CABLE (NO. 14 AWG) 1345 5-CONDUCTOR CABLE (NO. 14 AWG) 2625 LF 7-CONDUCTOR CABLE (NO. 14 AWG) 575 LF BARE COPPER GROUND WIRE (NO. 6 AWG) 85 2 IN. PVC CONDUIT [SCHEDULE 80] - TRENCHED 500 3 IN. PVC CONDUIT [SCHEDULE 80] - TRENCHED 260 3 IN. PVC CONDUIT [SCHEDULE 80] - BORED 310 LF 4 IN. PVC CONDUIT [SCHEDULE 80] - TRENCHED 13.5 CY CONCRETE FOUNDATION FOR TRAFFIC SIGNAL EQUIPMENT GROUND ROD - 3/4 IN. X 10 FT. LENGTH 720 12 IN. WHITE THERMOPLASTIC PAVEMENT MARKING - CROSSWALK 225 LF 24 IN. WHITE THERMOPLASTIC PAVEMENT MARKING - STOP LINE REMOVE AND DISPOSE OF EXISTING CONCRETE FOUNDATION 12 INCHES BELOW GRADE EΑ EΑ ADJUST HANDHOLE FRAME AND COVER. RELOCATE EXISTING INTERCONNECT CABLE (APPROX. 200 LF) LS REMOVE EXISTING SIGNAL EQUIPMENT

A.d.e.f— Aidieifig. B.J.K.M.N.R.Y.Z.g.h.j.q A,0,e,f,q PEPC0 799351-0904 L.X.q EXISTING X **★** SERVICE B.M.R.Y.\_\_ g.h.j.q A.B.C.D.E.F.G.H. J.K.L.M.N.O.P.Q R.S.X.Y.Z.a.b.c.d. e.f.g.h.j.k.m.n.p.q A+B+C+D+E+F+G+H+J+K+L+M+ N.O.P.O.X.Y.Z.a.b.c.d. e.f.g.h.j.k.m.n.p.q DESIGNED BY J. STORCK (R & S Terminate at Disconnect) DRAWN BY <u>J. STORCK</u> ML ML

NON-INVASIVE MICRO-LOOP GK DETECTOR LEAD-IN CABLE 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) 2-CONDUCTOR TRAY CABLE (NO. 12 A.W.G.) -CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) BARE COPPER GROUND
WIRE (NO. 6 A.W.G.) MICRO-LOOP DETECTOR (NON-INVASIVE) ■ ■ EXISTING GROUNDING ROD ➤ - PROPOSED GROUNDING ROD MD-AMD Tracking No.: 11APPG047 STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF TRAFFIC & SAFETY TRAFFIC ENGINEERING DESIGN DIVISION MD 414 (OXON HILL ROAD) AT HARBORVIEW AVE OXON HILL, MD GENERAL INFORMATION PLAN SCALE N/A DATE FEBRUARY 1, 2013 CONTRACT NO. BW996M82

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